



**DEPARTMENT OF THE NAVY**  
OFFICE OF THE SECRETARY  
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WASHINGTON, D.C. 20350-1000

SECNAVINST 2400.3  
OCIO  
5 Oct 18

SECNAV INSTRUCTION 2400.3

From: Secretary of the Navy

Subj: ELECTROMAGNETIC BATTLE SPACE

Ref: (a) DoD Directive 5000.01 of 20 November 2017  
(b) DoD Directive 5144.02 of 1 September 2017  
(c) DoD Directive 3222.04 of 10 May 2017  
(d) DoD Instruction 5000.02 of 10 August 2017  
(e) DoD Instruction 4650.01 of 17 October 2017  
(f) DoD Instruction 3222.03 of 10 October 2017  
(g) DoD Instruction 3150.09 of 16 January 2018  
(h) Department of Defense Dictionary of Military and Associated Terms, August 2018, et seq.  
(i) 47 U.S.C. §1-17, §21-39, §51, §81-120, §151-623, §701-769, §801, §901-942, §1001-1021, §1101-1110, §1201-1205, §1301-1305, §1401-1473  
(j) OMB Circular A-11, Part 2, of 1 July 2016  
(k) U.S. Department of Commerce, National Telecommunications Information Administration, Manual of Regulations and Procedures for Federal Radio Frequency Management, September 2015 Revision of the May 2013 Edition  
(l) SECNAVINST 5000.2E  
(m) SECNAVINST 5430.7R  
(n) SECNAVINST 2400.1A  
(o) SECNAVINST 2400.2A  
(p) Federal Acquisition Regulation Subpart 2.101  
(q) SECNAVINST 5000.42

Encl: (1) Responsibilities  
(2) Definitions

1. Purpose

a. Establishes Department of the Navy (DON) policy to enable operational superiority in the Electromagnetic Battle Space (EMBS) by implementing an enterprise approach to all activities necessary for DON Electromagnetic Spectrum Operations (EMSO) per references (a) through (p).

b. Assigns DON roles and responsibilities for developing, implementing, managing, and evaluating EMBS programs, policies, procedures, and controls per enclosure (1).

2. Definitions. Terms used in this instruction are defined in enclosure (2) and in references (a), (h), and (p).

3. Applicability. This instruction applies to the Office of the Secretary of the Navy (SECNAV), the Chief of Naval Operations (CNO), the Commandant of the Marine Corps (CMC), and all U.S. Navy and U.S. Marine Corps installations, commands, activities, and all other organizational entities within the DON.

a. Federal and Department of Defense (DoD) policy take precedence over any conflicting requirements in this instruction.

b. Implementing authorities should identify and report conflicting policy to the Office of the Chief Information Officer (OCIO) for resolution.

#### 4. Background

a. The Electromagnetic Spectrum (EMS) enterprise is the combination of DON policy, governance, organization, equipment, procedures, doctrine, information, facilities, training, and materiel necessary to conduct EMSO and to achieve EMBS superiority.

b. EMS dependent systems include all electronic systems, subsystems, devices, and equipment that depend on the use of spectrum to properly accomplish their function(s), regardless of how they were acquired (e.g., full acquisition, rapid acquisition, Joint Concept Technology Demonstration) or procured (e.g., commercial off-the-shelf, government off-the-shelf, non-developmental items).

#### 5. Policy

a. All EMS policy shall be in consonance with applicable international, national, Federal, DoD, joint, and DON policy.

b. The DON shall:

(1) Recognize the EMBS as the operational battle space comprised of all electromagnetic radiation used by military forces;

(2) Strive to achieve and maintain EMBS superiority in order to accomplish its warfighting mission;

(3) Coordinate enterprise capabilities within the EMBS to ensure EMS superiority and operational success across all warfighting domains;

(4) Support the advancement of the EMS enterprise throughout research and acquisition activities and ensure EMBS superiority is considered and addressed in all phases of research, development, and acquisition; and

(5) Support the advancement of the EMS enterprise in the DON through the following activities:

(a) Direct the focus of the EMS enterprise on the regions of the EMS that are required to ensure EMBS superiority;

(b) Promote activities that enhance the development of EMBS doctrine and tactics;

(c) Support investments to optimize Navy and Marine Corps access to, and use of, the EMBS to support agile, resilient, and effective military operations through testing and training;

(d) Coordinate EMBS superiority activities with United States allies and partner countries;

(e) Mitigate EMBS weaknesses that negatively impact DON capabilities;

(f) Strive to achieve EMBS superiority for all systems, sub-systems, and equipment developed, acquired, and operated by the DON, including commercial items and non-developmental items;

(g) Leverage best practices and investments from the DoD, other organizations, and military services to enhance EMBS management capabilities;

(h) Provide commanders with reliable, relevant, and networked tools to conduct detailed and dynamic planning, execution, and assessment of the EMBS to gain and maintain superiority throughout the full range of military operations;

(i) Ensure organizational readiness through access to realistic EMBS training and sound engineering, acquisition, and administrative practices; and

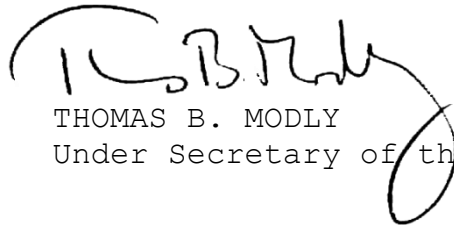
(j) Institutionalize DON EMBS concepts via comprehensive education programs and exercises requiring the use and development of state of the art training, equipment, facilities, and ranges.

6. Responsibilities. See enclosure (1).

7. Records Management

a. Records created as a result of this instruction, regardless of format or media, must be maintained and dispositioned according to the records disposition schedules found on the Directives and Records Management Division (DRMD) portal page:  
<https://portal.secnav.navy.mil/orgs/DUSNM/DONAA/DRM/SitePages/Home.aspx>.

b. For questions concerning the management of records related to this instruction or the records disposition schedules, please contact your local Records Manager or the DRMD program office.

  
THOMAS B. MODLY  
Under Secretary of the Navy

Distribution:

Electronic only, via Department of the Navy Issuances website  
<https://doni.documentservices.dla.mil>.

## **RESPONSIBILITIES**

1. The OCIO, as the advocate for EMBS superiority on behalf of the DON and as principal advisor to SECNAV for the EMS, shall support the advancement of the EMS enterprise as follows:

a. Provide policy oversight and guidance for DON spectrum management;

b. Proactively participate in, inform, and shape national and international EMS regulatory processes to protect existing EMS capabilities and operations, while accommodating expansion within a dynamic operating environment;

c. Institute an executive governance structure to serve as the DON's primary advisory group to provide oversight and guidance in the development and implementation of EMBS strategy, policy, and doctrine;

d. Provide oversight and guidance for data sharing related to the EMBS;

e. Represent the DON in DoD, federal, national, international, and commercial EMBS related forums; and

f. Leverage Navy and Marine Corps Subject Matter Experts (SMEs) to support DON efforts in DoD, federal, national, international, and commercial EMBS related forums.

2. The Assistant Secretary of the Navy (Research, Development, and Acquisition) (ASN (RD&A)), as the advocate for EMBS on behalf of DON Research, Development, and Acquisition and as the Service Acquisition Executive shall:

a. Acquire systems that evolve the ability to conduct operations within the EMBS and continue to assure access, maneuver, and fires advantage with Electronic Warfare (EW) in order to maintain EMBS superiority per references (b) through (g);

b. Promote investment in EMBS superiority associated technologies, including EMS management systems;

c. Apply sound engineering, acquisition, and management practices to maximize effectiveness in the EMBS;

d. Strive to attain initial superior EMBS design compatibility vice after-the-fact remedial measures;

e. Provide for accelerated acquisition of advanced spectrum-dependent capabilities when appropriate per reference (q); and

f. Ensure that the Chief of Naval Research, as the science and technology advocate on behalf of the DON EMBS superiority, shall:

(1) Encourage and promote the inclusion of achieving EMBS superiority in research actions; and

(2) Consider EMBS superiority for technologies being considered for immediate acquisition or for imminent fleet integration.

3. The Assistant Secretary of the Navy (Financial Management and Comptroller) shall:

a. Provide SMEs and develop policies and procedures to support the cost estimating and budgeting requirements per references (a), (d), and (l);

b. Review and approve EMBS cost estimates, budgets, and related documents per reference (l), including policy oversight for EMBS superiority in life cycle costs of major weapons systems and automated information systems.

4. The Assistant Secretary of the Navy (Energy, Installations, and Environment), as the advocate for EMBS on behalf of DON installations, shall:

a. Ensure EMBS superiority is considered and addressed in the planning, management, and operation of DON installations;

b. Ensure EMBS superiority is considered and addressed in the construction and maintenance of utilities infrastructure; and

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c. Ensure EMBS superiority issues are addressed with tenants at DON installations.

5. The CNO and the CMC, as the primary advocates for EMBS on behalf of Service operational issues, shall:

a. Ensure all applicable functional areas of their respective Services address EMBS superiority within related requirements and actions;

b. Plan, program, and budget resources in support of their respective Service EMBS superiority requirements;

c. Address EMBS superiority in Joint Capabilities Integration and Development System requirements and documents;

d. Develop respective Service doctrines, procedures, tactics, techniques, and methods to achieve EMBS superiority;

e. Identify, prioritize, and integrate expeditionary cyberspace, EW capability solutions, and electromagnetic maneuver warfare in Service training, leadership, personnel education, materiel, and facilities;

f. Provide SMEs to support the OCIO in DoD, federal, national, international, and commercial forums impacting the EMBS;

g. In coordination with ASN (RD&A), develop and maintain an informed investment strategy that assures EMS requirements are balanced across Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities, and Policy;

h. In coordination with ASN (RD&A), evaluate systems within the EMBS for vulnerability to potential hostile EMS activity, exploitation by foreign intelligence sources and methods, and inadvertent friendly electromagnetic interference;

i. In coordination with ASN (RD&A) and, as appropriate, the CNO, identify deficiencies that degrade military systems and weapons platforms, and identify costs associated with employing redundant and alternative systems or methods; and

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j. In coordination with ASN (RD&A), invest in test capabilities that support the development and fielding of advanced EMS capabilities that can operate within a congested and contested Electromagnetic Environment against threats.



## DEFINITIONS

1. EMS. The entire distribution of electromagnetic radiation according to frequency or wavelength.
2. EMBS. A physical environment and operational battle space comprised of all radiant electromagnetic energy for the conduct of military operations at a given time and place.
3. Electromagnetic Battle Space Dominance. A function of controlling an opponent's collection of information, synthesis of information, and use of the battle space while simultaneously maintaining an environment that enhances DON capabilities to collect, synthesize, and use the same battle space.
4. EMSO. The coordination of all capabilities within the EMS battle space to ensure EMS superiority across all battle spaces.
5. Electromagnetic Spectrum Enterprise. The combination of DON policy, governance, organization, equipment, procedures, doctrine, information, facilities, training, and materiel necessary to conduct EMSO, enhancing the implementation of EMBS domination.
6. Electromagnetic Spectrum Superiority. The degree of battle space dominance in the EMS that permits the conduct of military operations at a given time and place without prohibitive interference, while affecting the adversary's ability to do the same.
7. The Electromagnetic Operational Environment (EMOE). A complex composite of the electromagnetic energy conditions, circumstances, and influences that affect the employment of capabilities and operational decisions.
8. Electromagnetic Environmental Effects (E3). The impact of the EMOE upon the operational capability of Naval Forces, equipment, systems, and platforms. All systems that operate in the EMS are susceptible to E3.